



Measuring Broadband America

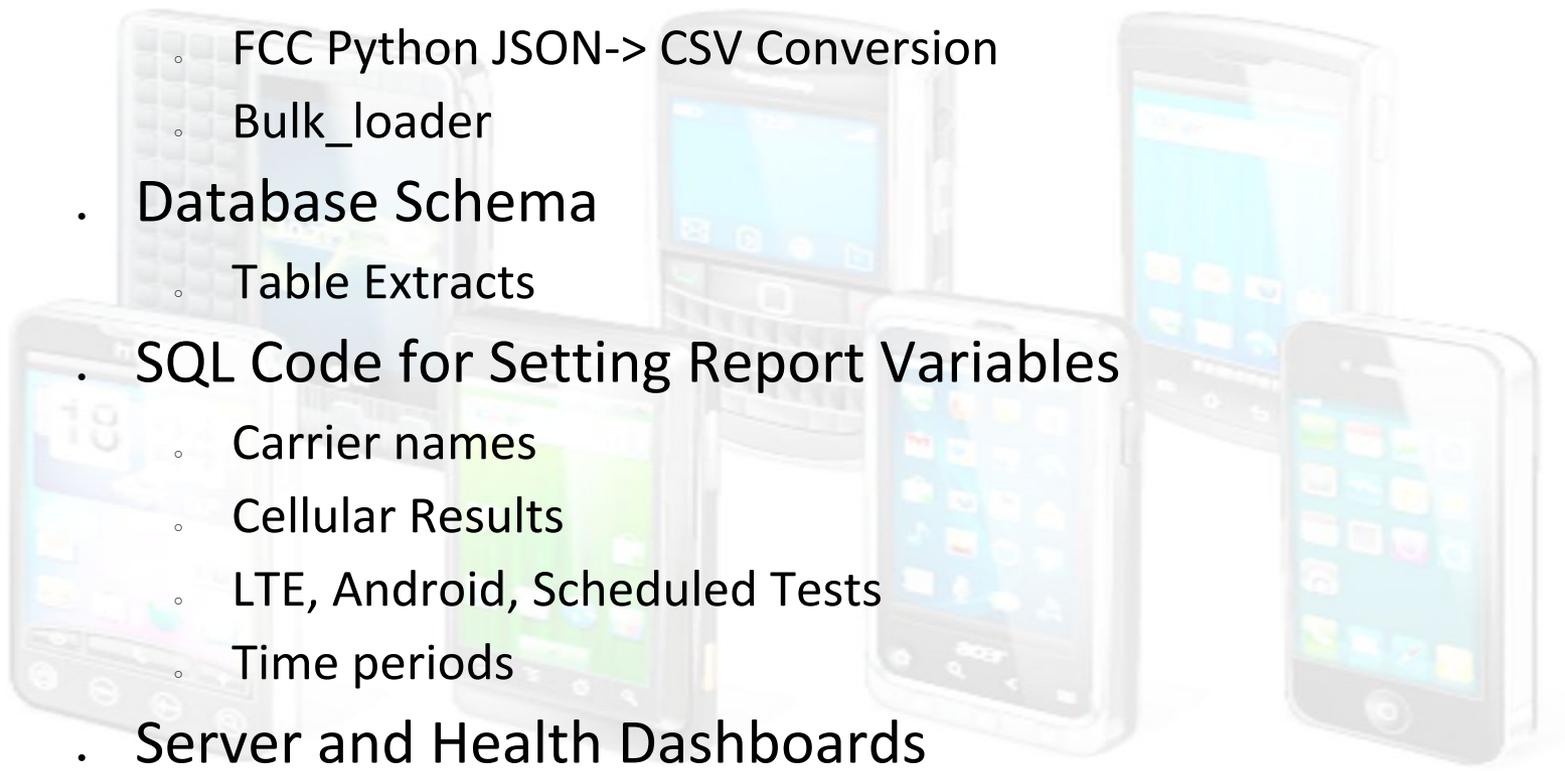
Mobile Collaborative Meeting
September 22, 2016





Collaborative Meeting Agenda

- . JSON Conversion Tools
 - SK PHP JSON->CSV Conversion
 - FCC Python JSON-> CSV Conversion
 - Bulk_loader
- . Database Schema
 - Table Extracts
- . SQL Code for Setting Report Variables
 - Carrier names
 - Cellular Results
 - LTE, Android, Scheduled Tests
 - Time periods
- . Server and Health Dashboards





JSON Conversion Tools

- SK PHP JSON->CSV Conversion
- FCC Python JSON-> CSV Conversion
 - <https://github.com/FCC/vizmo/tree/python>
- Bulk_loader
 - https://github.com/FCC/mmba_JSON_bulkimporter

FILES:

bulk_import.php config.json export_September_21_2016_11_12.zip logs
bulk_importer data functions.php

Configuration

- `DEFINE("BASE_PATH", "/mmba");`

Data

- `DEFINE('DATA_DIR', 'logs/data');`
- `DEFINE('JSON_DIR', 'data');`



Database Schema

mmba_JSON_bulkimporter/mobile_mba_schema.sql

https://github.com/FCC/mmba_JSON_bulkimporter/blob/master/mobile_mba_schema.sql

mmba_JSON_bulkimporter/MMBA_Table_DDL.sql

https://github.com/FCC/mmba_JSON_bulkimporter/blob/master/MMBA_Table_DDL.sql





SQL Code for Setting Report Variables

- 'AT&T'
 - network_operator_code IN ('310410')
 - network_operator_name ~* '^[^|\s]*at[\s]*&[\s]*t[\s]*\$'
 - update curr_networkdata set carrier = 'att' where network_operator_code in ('310410') and network_operator_name ~* '^[^|\s]*at[\s]*&[\s]*t[\s]*\$' ;
- 'T-Mobile'
 - network_operator_code IN('310026', '310260')
 - network_operator_name ~* '^[^|\s]*t[\s-]*[\s]*mobile'
 - update curr_networkdata set carrier = 'tmobile' where network_operator_code IN ('310026', '310260') and network_operator_name ~* '^[^|\s]*t[\s-]*[\s]*mobile';
- 'Verizon'
 - network_operator_code IN ('310012', '311480')
 - network_operator_name ~* 'verizon'
 - update curr_networkdata set carrier = 'verizon' where network_operator_code IN ('310012', '311480') and network_operator_name ~* 'verizon';
- 'Sprint'
 - network_operator_code IN ('310120')
 - network_operator_name ~* 'sprint[\s]*\$'
 - update curr_networkdata set carrier = 'sprint' where network_operator_code IN ('310120') and network_operator_name ~* 'sprint';



SQL Code for Setting Report Variables

```
alter table curr_networkdata add column cell boolean not null default false;
```

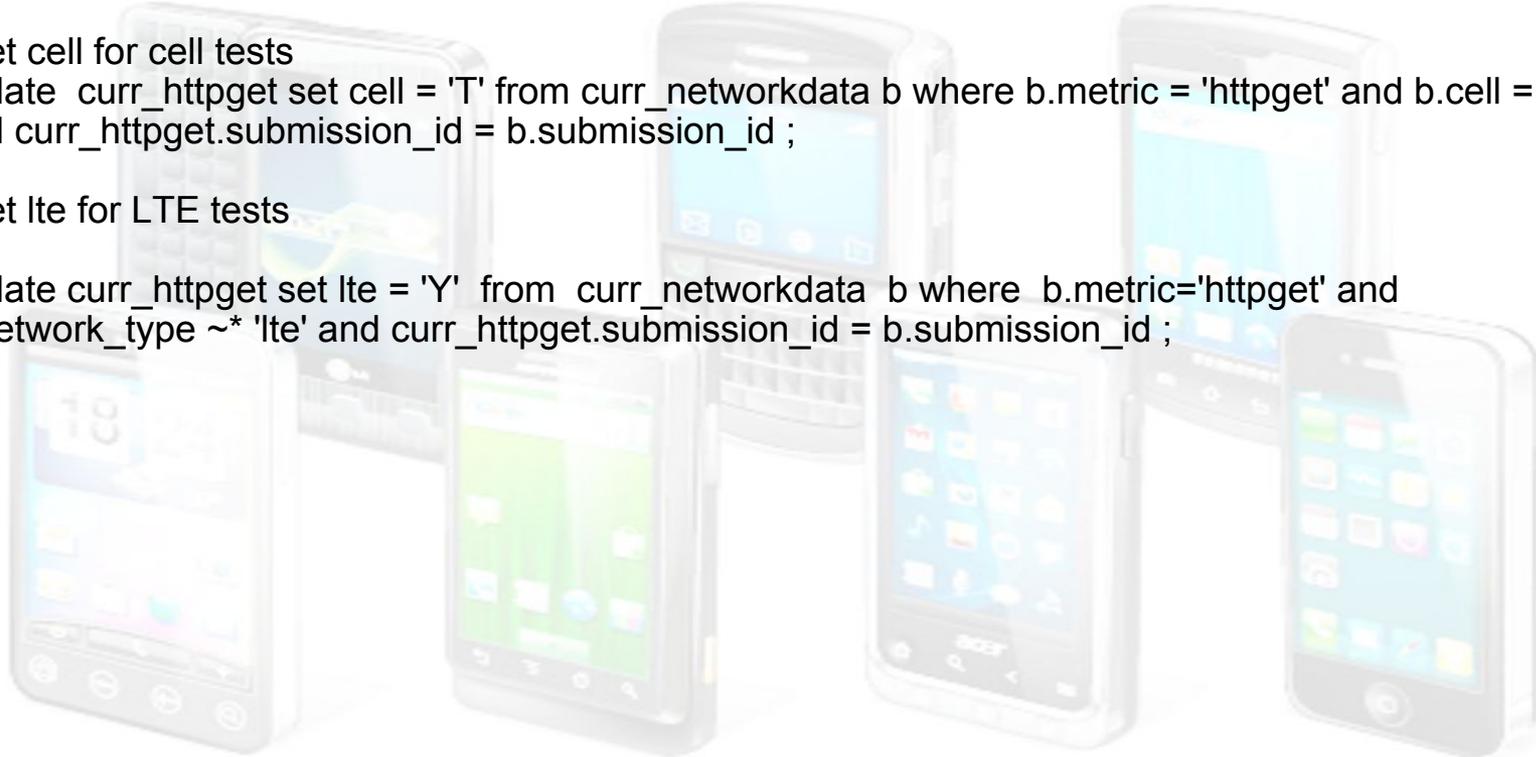
```
update curr_networkdata set cell = 'y' where extract (year from localdtime ) = 2015 and where  
active_network_type ~* 'mobile' or active_network_type ~* 'cell' or active_network_type ~* 'WIMAX' ;
```

```
--set cell for cell tests
```

```
update curr_httpget set cell = 'T' from curr_networkdata b where b.metric = 'httpget' and b.cell = 'T'  
and curr_httpget.submission_id = b.submission_id ;
```

```
--set lte for LTE tests
```

```
update curr_httpget set lte = 'Y' from curr_networkdata b where b.metric='httpget' and  
b.network_type ~* 'lte' and curr_httpget.submission_id = b.submission_id ;
```



Measuring Broadband America

Test servers and connectivity volunteered in support of the Federal Communication Commissions Measuring Broadband America program.

SamKnows Test Server	Timestamp	Host	CPU	Load	Disk	NIC	Ping	Ping v6	Memory	Services
02-on-national-dc.samknows.comcast.net	2016-04-20 11:47:32 UTC	✓	✓	✓	✓	✓	✓	✓	✓	⚠
02-on-national-dc.samknows.comcast.net	2016-05-04 00:05:16 UTC	✓	⚠	✓	✓	✓	✓	✓	✓	⚠
02-on-national-dc.samknows.comcast.net	2016-05-04 00:10:16 UTC	✓	✓	✓	✓	✓	✓	✓	✓	⚠
02-on-national-dc.samknows.comcast.net	2016-06-06 12:45:16 UTC	✓	⚠	✓	✓	✓	✓	✓	✓	⚠
02-on-national-dc.samknows.comcast.net	2016-06-06 12:50:16 UTC	✓	✓	✓	✓	✓	✓	✓	✓	⚠
02-on-national-dc.samknows.comcast.net	2016-06-07 22:45:17 UTC	✓	⚠	✓	✓	✓	✓	✓	✓	⚠
02-on-national-dc.samknows.comcast.net	2016-06-07 22:50:16 UTC	✓	✓	✓	✓	✓	✓	✓	✓	⚠
02-on-national-dc.samknows.comcast.net	2016-06-27 18:45:16 UTC	✓	⚠	✓	✓	✓	✓	✓	✓	⚠
02-on-national-dc.samknows.comcast.net	2016-06-27 18:51:52 UTC	✓	✓	✓	✓	✓	✓	✓	✓	⚠

[BACK TO OVERVIEW](#)

At SamKnows, we believe that access to high quality internet connectivity is a basic human right. We will keep working on building better ways to measure internet performance until that is a reality for all.

[CONTACT US](#)

Internet Health

Your internet performance information is on the cards below. Whenever there is a problem or fault, you can send these to your internet provider to highlight the issue. Take control of your network with these report cards.



GOOD PROBLEMS FAULTS NETWORK PRODUCTIVITY ENTERTAINMENT

DOWNLOAD

940.64Mbps
DOWNLOAD

94.00%
OF ADVERTISED

Very good

6 hours ago

UPLOAD

941.14Mbps
UPLOAD

4 hours ago

LATENCY

1.28ms
LATENCY

Very good

6 hours ago

DNS

38.78ms
RESPONSE TIME

Very good

33.3000%
REQUESTS FAILED

May cause problem

2 hours ago

PACKET LOSS

39.5000%
PACKETS LOST

Significant fault

12 minutes ago

WORDPRESS.ORG

WordPress

0.70seconds
LOAD TIME

Very good

DBS.COM

DBS

1.05seconds

GOOGLE

Google

